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* * * * * Welcome to STN International * * * * *

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NEWS 3 JUL 20 Powerful new interactive analysis and visualization software,
STN AnaVist, now available
NEWS 4 AUG 11 STN AnaVist workshops to be held in North America
NEWS 5 AUG 30 CA/CAPLUS - Increased access to 19th century research documents
NEWS 6 AUG 30 CASREACT - Enhanced with displayable reaction conditions
NEWS 7 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY
NEWS 8 SEP 22 MATHDI to be removed from STN

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 08:23:01 ON 29 SEP 2005

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 08:23:11 ON 29 SEP 2005
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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 28 SEP 2005 HIGHEST RN 864132-17-2

DICTIONARY FILE UPDATES: 28 SEP 2005 HIGHEST RN 864132-17-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

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*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
*****
```

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

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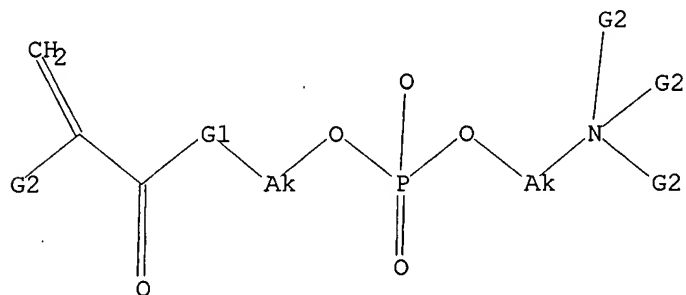
Uploading C:\Program Files\Stnexp\Queries\phospho.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 O,NH

G2 H,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sam

SAMPLE SEARCH INITIATED 08:23:36 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 610 TO ITERATE

100.0% PROCESSED 610 ITERATIONS
SEARCH TIME: 00.00.01

27 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 10719 TO 13681

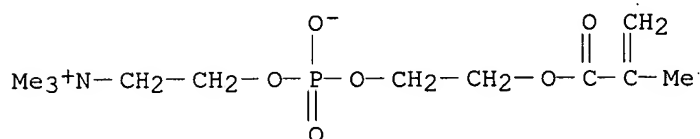
PROJECTED ANSWERS: 229 TO 851

L2 27 SEA SSS SAM L1

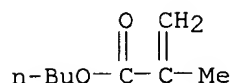
=> d scan

L2 27 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide, polymer with butyl 2-methyl-2-propenoate, block (9CI)
MF (C11 H22 N O6 P . C8 H14 O2)x
CI PMS, COM

CM 1



CM 2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> s 11 full

FULL SEARCH INITIATED 08:24:45 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 12800 TO ITERATE

100.0% PROCESSED 12800 ITERATIONS
SEARCH TIME: 00.00.01

598 ANSWERS

L3 598 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
162.19	162.40

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 08:24:52 ON 29 SEP 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 29 Sep 2005 VOL 143 ISS 14
FILE LAST UPDATED: 28 Sep 2005 (20050928/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s l3

L4 728 L3

=> s immuno? or agglutination

743867 IMMUNO?

53176 IG

14228 IGS

60266 IG

(IG OR IGS)

760705 IMMUNO?

(IMMUNO? OR IG)

13710 AGGLUTINATION

134 AGGLUTINATIONS

13761 AGGLUTINATION

(AGGLUTINATION OR AGGLUTINATIONS)

L5 769725 IMMUNO? OR AGGLUTINATION

=> s acrylate

173035 ACRYLATE

34045 ACRYLATES

L6 182214 ACRYLATE

(ACRYLATE OR ACRYLATES)

=> s ?acrylate

L7 345497 ?ACRYLATE

=> s l7 and l4

L8 471 L7 AND L4

=> s l8 (l) l5

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L8 (L) L5'

L9 30 L8 (L) L5

=> s l4 (l) l5

L10 14 L4 (L) L5

=> s l10 and l7

L11 9 L10 AND L7

=> d scan

L11 9 ANSWERS CAPLUS COPYRIGHT 2005 ACS on STN

IC ICM G01N033-531

ICS G01N033-543

CC 9-15 (Biochemical Methods)

TI Protein adsorption-preventing polymers or copolymers

ST methacryloyloxyethylphosphorylcholine polymer copolymer protein adsorption
prevention

IT Immunoassay

(methacryloyloxyethyl phosphorylcholine polymer or copolymer for
preventing protein adsorption in two-site anal. method or immunoassay)

IT Antigens

RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)
(CEA (carcinoembryonic antigen), methacryloyloxyethyl phosphorylcholine polymer or copolymer for preventing protein adsorption in two-site anal. method or immunoassay)

IT Immunoglobulins

RL: ARU (Analytical role, unclassified); MOA (Modifier or additive use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)

(G, anti-carcinoembryonic antigen; methacryloyloxyethyl phosphorylcholine polymer or copolymer for preventing protein adsorption in two-site anal. method or immunoassay)

IT Polymers, analysis

RL: ARU (Analytical role, unclassified); MOA (Modifier or additive use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)

(co-, methacryloyloxyethyl phosphorylcholine containing; methacryloyloxyethyl phosphorylcholine polymer or copolymer for preventing protein adsorption in two-site anal. method or immunoassay)

IT **67881-98-5DP**, 2-Methacryloyloxyethyl phosphorylcholine, polymers or copolymers **67881-99-6P 67882-00-2P**

125275-25-4P 134483-35-5P 148569-41-9P

RL: ARU (Analytical role, unclassified); MOA (Modifier or additive use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)

(methacryloyloxyethyl phosphorylcholine polymer or copolymer for preventing protein adsorption in two-site anal. method or immunoassay)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> d his

(FILE 'HOME' ENTERED AT 08:23:01 ON 29 SEP 2005)

FILE 'REGISTRY' ENTERED AT 08:23:11 ON 29 SEP 2005

L1 STRUCTURE UPLOADED

L2 27 S L1 SAM

L3 598 S L1 FULL

FILE 'CAPLUS' ENTERED AT 08:24:52 ON 29 SEP 2005

L4 728 S L3

L5 769725 S IMMUNO? OR AGGLUTINATION

L6 182214 S ACRYLATE

L7 345497 S ?ACRYLATE

L8 471 S L7 AND L4

L9 30 S L8 (L) L5

L10 14 S L4 (L) L5

L11 9 S L10 AND L7

=> s l11 not py>2003

2001315 PY>2003

L12 4 L11 NOT PY>2003

=> d ibib 1-4

L12 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:945791 CAPLUS

DOCUMENT NUMBER: 140:14529

TITLE: Developing solvent, measuring method, and kit for immunochromatography

INVENTOR(S): Mochizuki, Takeshi; Komatsu, Mariko; Sakaki, Shujiro

PATENT ASSIGNEE(S): Taunzu K. K., Japan; NOF Corporation

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003344406	A2	20031203	JP 2002-150996	20020524
PRIORITY APPLN. INFO.:			JP 2002-150996	20020524

L12 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2002:172237 CAPLUS
 DOCUMENT NUMBER: 136:213193
 TITLE: Highly reproducible agglutination immunoassay method and reagent
 INVENTOR(S): Shigenobu, Kayoko; Shuto, Kenshiro; Sakaki, Shujiro
 PATENT ASSIGNEE(S): Kyowa Medex Co., Ltd, Japan; Nof Corporation
 SOURCE: PCT Int. Appl., 35 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002018953	A1	20020307	WO 2001-JP7385	20010828
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2420770	AA	20020307	CA 2001-2420770	20010828
AU 2001080210	A5	20020313	AU 2001-80210	20010828
EP 1314982	A1	20030528	EP 2001-958575	20010828
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2003166302	A1	20030904	US 2003-363038	20030228
PRIORITY APPLN. INFO.:			JP 2000-259964	A 20000829
			WO 2001-JP7385	W 20010828
REFERENCE COUNT: 3		THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L12 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2000:215700 CAPLUS
 DOCUMENT NUMBER: 132:262394
 TITLE: Polymer/enzyme-conjugate and polymer/enzyme/antibody-conjugate for enzyme immunoassay
 INVENTOR(S): Sakaki, Shujiro; Yamada, Satoru; Shudo, Kenshiro; Nakabayashi, Nobuo; Ishihara, Kazuhiko
 PATENT ASSIGNEE(S): Nippon Oil and Fats Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000093169	A2	20000404	JP 1998-274782	19980929
PRIORITY APPLN. INFO.:			JP 1998-274782	19980929

L12 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1995:606836 CAPLUS
 DOCUMENT NUMBER: 123:5146
 TITLE: Protein adsorption-preventing polymers or copolymers
 INVENTOR(S): Sakaki, Hidejiro; Nakada, Shinji; Matsumoto, Takeo;
 Koinuma, Yasuyoshi; Nakabayashi, Norio; Ishihara,
 Kazuhiko
 PATENT ASSIGNEE(S): Nippon Oils & Fats Co Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07083923	A2	19950331	JP 1993-228973	19930914
JP 3443891	B2	20030908		
PRIORITY APPLN. INFO.:			JP 1993-228973	19930914

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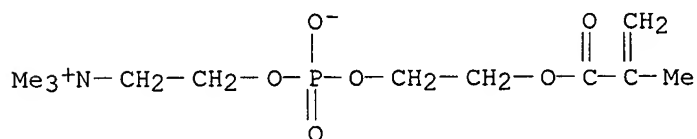
L12 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2003:945791 CAPLUS
 DOCUMENT NUMBER: 140:14529
 TITLE: Developing solvent, measuring method, and kit for
 immunochromatography
 INVENTOR(S): Mochizuki, Takeshi; Komatsu, Mariko; Sakaki, Shujiro
 PATENT ASSIGNEE(S): Taunzu K. K., Japan; NOF Corporation
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003344406	A2	20031203	JP 2002-150996	20020524
PRIORITY APPLN. INFO.:			JP 2002-150996	20020524

AB An improved developing solvent for an immunochromatog. is provided, with which non-specific aggregation and non-specific reaction upon measurements are prevented, and the measurements are performed with high accuracy. The developing solvent for an immunochromatog. is characterized in that it comprises a buffer containing a polymer possessing phosphorylcholine groups. It is preferable that the polymer is contained in the concentration of 0.005-0.3w/v%, and its number average mol. weight is higher than 40,000. The polymer preferably contains 2-methacryloyloxyethylphosphorylcholine as the constituting monomer, and it can be either a homopolymer or a copolymer.

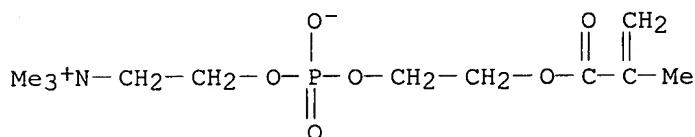
IT **67881-98-5D**, 2-Methacryloyloxyethylphosphorylcholine, copolymer with **methoxypolyethyleneglycolmonomethacrylate**, copolymer with **methacrylate**
 RL: ARU (Analytical role, unclassified); ANST (Analytical study)
 (improved developing solvent, measuring method, and kit for immunochromatog.)

RN 67881-98-5 CAPLUS
 CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide (9CI) (CA INDEX NAME)

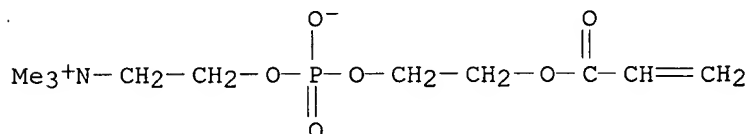


IT 67881-98-5, 2-Methacryloyloxyethylphosphorylcholine
 150120-15-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (improved developing solvent, measuring method, and kit for immunochromatog.)

RN 67881-98-5 CAPLUS
 CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide (9CI) (CA INDEX NAME)



RN 150120-15-3 CAPLUS
 CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N-trimethyl-9-oxo-, inner salt, 4-oxide (9CI) (CA INDEX NAME)



L12 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2002:172237 CAPLUS
 DOCUMENT NUMBER: 136:213193
 TITLE: Highly reproducible agglutination immunoassay method and reagent
 INVENTOR(S): Shigenobu, Kayoko; Shuto, Kenshiro; Sakaki, Shujiro
 PATENT ASSIGNEE(S): Kyowa Medex Co.,ltd, Japan; Nof Corporation
 SOURCE: PCT Int. Appl., 35 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002018953	A1	20020307	WO 2001-JP7385	20010828
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,				

PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
 US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 CA 2420770 AA 20020307 CA 2001-2420770 20010828
 AU 2001080210 A5 20020313 AU 2001-80210 20010828
 EP 1314982 A1 20030528 EP 2001-958575 20010828
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 US 2003166302 A1 20030904 US 2003-363038 20030228
 PRIORITY APPLN. INFO.: JP 2000-259964 A 20000829
 WO 2001-JP7385 W 20010828

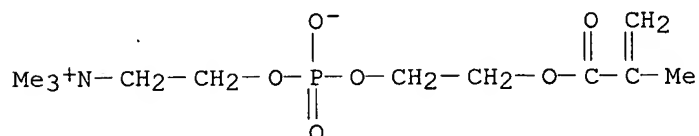
AB A highly reproducible agglutination immunoassay method is provided, in which the agglutination of insol. carrier particles (e.g., latex) takes place in a stable and homogeneous way. An immunoassay reagent used for this method is also provided. In this agglutination immunoassay method, an antigenic substance in a test sample is bound to the insol. carrier particles substantially not carrying any bound-antigen or -antibody, and then, an antibody or an antibody complex capable of specifically reacting with the antigenic substance is bound to the particles to selectively give rise to the agglutination. The reagent contains a polymer which is prepared either by homogeneously polymerizing a monomer possessing a phosphorylcholine group and a vinyl group (e.g., 2-methacryloyloxyethylphosphorylcholine), or co-polymerizing the monomer possessing a phosphorylcholine group and a vinyl group, and another monomer possessing a vinyl group (e.g., n-butylmethacrylate). An improved reproducibility was obtained when the HbA1c concentration in blood samples were determined with this reagent using anti-HbA1c monoclonal antibody in comparison to the conventional reagents.

IT **67881-98-5**, 2-Methacryloyloxyethylphosphorylcholine
 RL: RCT (Reactant); RACT (Reactant or reagent)

(highly reproducible **agglutination immunoassay**
 method and reagent)

RN 67881-98-5 CAPLUS

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:215700 CAPLUS

DOCUMENT NUMBER: 132:262394

TITLE: Polymer/enzyme-conjugate and polymer/enzyme/antibody-conjugate for enzyme immunoassay

INVENTOR(S): Sakaki, Shujiro; Yamada, Satoru; Shudo, Kenshiro; Nakabayashi, Nobuo; Ishihara, Kazuhiko

PATENT ASSIGNEE(S): Nippon Oil and Fats Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

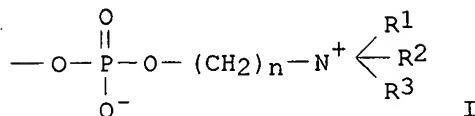
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000093169	A2	20000404	JP 1998-274782	19980929
PRIORITY APPLN. INFO.:			JP 1998-274782	19980929

GI

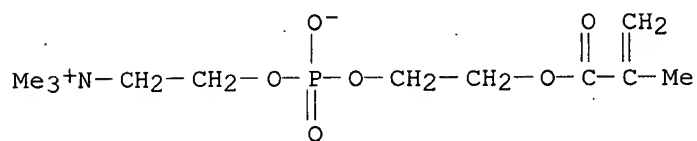


AB Polymer/enzyme-conjugate and polymer/enzyme/substance with biol. specific binding ability-conjugate are provided for the use in a highly sensitive enzyme immunoassay. This polymer/enzyme-conjugate is prepared by chemical binding an enzyme for immunol. measurement (e.g., peroxidase) with a polymer synthesized by polymerizing the monomer constituent containing a hydrophilic monomer possessing a phosphorylcholin-analog group (e.g., 2-methacryloyloxyethylphosphorylcholine (MPC)(I)) and a monomer possessing a chemical reactive group (e.g., **methacrylate**, 2-aminoethyl(meth)acrylate). The substance with biol. specific binding ability used for the conjugate is either antibody, biotin, avidin, or antigen. Various samples of polymer/horse radish peroxidase/biotin or IgG-conjugate prepared by this method exhibited an excellent solubility and 1.8-36 times higher sensitivity than the cases where no polymer was used to make conjugates.

IT **67881-98-5**, 2-Methacryloyloxyethylphosphorylcholine
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (polymer/enzyme-conjugate and polymer/enzyme/antibody-conjugate for enzyme immunoassay)

RN 67881-98-5 CAPLUS

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide (9CI) (CA INDEX NAME)



L12 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:606836 CAPLUS

DOCUMENT NUMBER: 123:5146

TITLE: Protein adsorption-preventing polymers or copolymers

INVENTOR(S): Sakaki, Hidejiro; Nakada, Shinji; Matsumoto, Takeo; Koinuma, Yasuyoshi; Nakabayashi, Norio; Ishihara, Kazuhiko

PATENT ASSIGNEE(S): Nippon Oils & Fats Co Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07083923	A2	19950331	JP 1993-228973	19930914
JP 3443891	B2	20030908		

PRIORITY APPLN. INFO.:

JP 1993-228973

19930914

AB 2-Methacryloyloxyethyl phosphorylcholine polymer and copolymer containing 2-methacryloyloxyethyl phosphorylcholine are used for preventing protein adsorption. The (co)polymers are useful for increasing the reproductivity and accuracy of two-site method, e.g. antigen or antibody sandwich immunoassay, for biochem. or clin. diagnosis. In example, poly-2-methacryloyloxyethyl phosphorylcholine, and 2-methacryloyloxyethyl phosphorylcholine copolymer with Bu methacrylate, Me methacrylate, 2-hydroxyethyl methacrylate, or styrene were prepared. The prepared polymer or copolymers were used for preventing adsorption of FITC-labeled mouse anti-human carcinoembryonic antigen IgG during immunoassay.

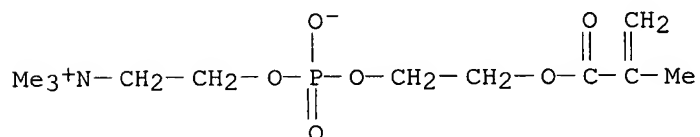
IT 67881-98-5DP, 2-Methacryloyloxyethyl phosphorylcholine, polymers or copolymers 67881-99-6P 67882-00-2P 125275-25-4P 134483-35-5P 148569-41-9P

RL: ARU (Analytical role, unclassified); MOA (Modifier or additive use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)

(methacryloyloxyethyl phosphorylcholine polymer or copolymer for preventing protein adsorption in two-site anal. method or immunoassay)

RN 67881-98-5 CAPLUS

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide (9CI) (CA INDEX NAME)



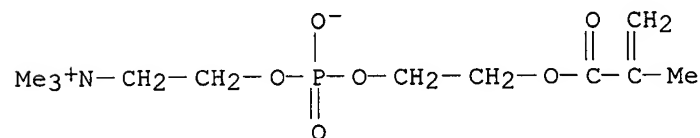
RN 67881-99-6 CAPLUS

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 67881-98-5

CMF C11 H22 N O6 P



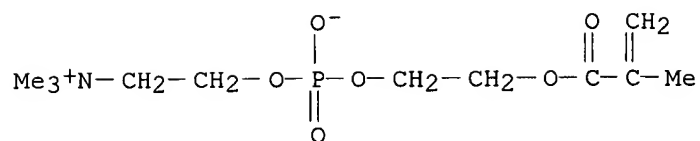
RN 67882-00-2 CAPLUS

CN Ethanaminium, 2-[[hydroxy[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethoxy]phosphinyl]oxy]-N,N,N-trimethyl-, inner salt, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 67881-98-5

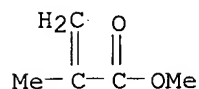
CMF C11 H22 N O6 P



CM 2

CRN 80-62-6

CMF C5 H8 O2



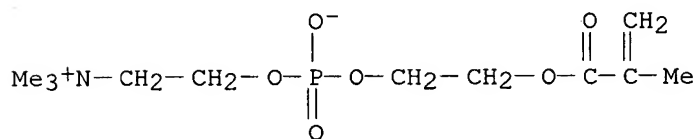
RN 125275-25-4 CAPLUS

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide, polymer with butyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 67881-98-5

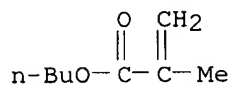
CMF C11 H22 N O6 P



CM 2

CRN 97-88-1

CMF C8 H14 O2



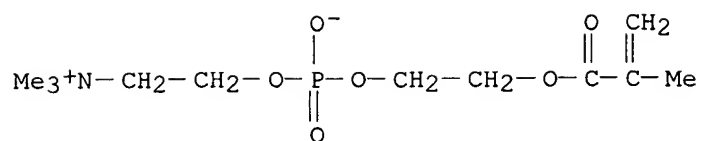
RN 134483-35-5 CAPLUS

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 67881-98-5

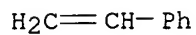
CMF C11 H22 N O6 P



CM 2

CRN 100-42-5

CMF C8 H8



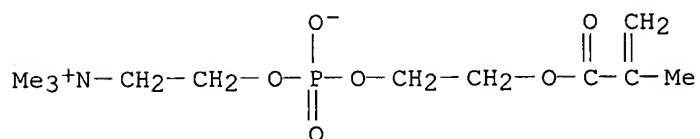
RN 148569-41-9 CAPLUS

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide, polymer with 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 67881-98-5

CMF C11 H22 N O6 P



CM 2

CRN 868-77-9

CMF C6 H10 O3

